

REPORT ON MACHINERY.

5992

No. 5992
 No. in Survey held at Beverley Hull Date, first Survey May 4 Last Survey July 24 1886
 Reg. Book. on the Iron Screw Steamer "New Zealand" Tons 101.88
 Master Richardson Built at Beverley By whom built Cochrane & Co When built 1886
 Engines made at Hull By whom made C. D. Holmes & Co when made 1886
 Boilers made at Hull By whom made C. D. Holmes & Co when made 1886
 Registered Horse Power 50 Owners Hull Steam Fishing & Ice Co (Limited) Port belonging to Hull

ENGINES, &c.—

Description of Engines Triple Compound Inverted Direct Acting Surface Condensing.
 Diameter of Cylinders 13 1/2" 19" x 32" Length of Stroke 24" No. of Rev. per minute _____ Point of Cut off, High Pressure 5/8 Low Pressure 1/2
 Diameter of Screw shaft 6 3/4" Diam. of Tunnel shaft 6 1/2" Diam. of Crank shaft journals 6 3/4" Diam. of Crank pin 6 3/4" size of Crank webs 5 x 7 1/2"
 Diameter of screw 8.9" Pitch of screw 12.5" x 10.9" No. of blades 4 state whether moveable no total surface 28 square ft
 of Feed pumps one diameter of ditto 2 1/2" Stroke 14" Can one be overhauled while the other is at work ✓
 of Bilge pumps one diameter of ditto 2 1/2" Stroke 14" Can one be overhauled while the other is at work ✓
 Where do they pump from Engine room bilge & hold
 of Donkey Engines one Size of Pumps, 2 1/2" x Where do they pump from Engine room bilge hold
Hotwell Sea. Discharges to Boiler, Condenser, Deck & Overboard. Also a 3" Venturi
jector with suction in engine room bilge and discharge on deck
 Are all the bilge suction pipes fitted with roses yes Are the roses always accessible yes Are the sluices on Engine room bulkheads always accessible _____
 No. of bilge injections one and sizes 2 1/2" Are they connected to condenser, or to circulating pump circulating pump.
 How are the pumps worked by rocking levers from intermediate engine piston rod crosshead.
 Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes Are the discharge pipes above or below the deep water line above
 Are they each fitted with a discharge valve always accessible on the plating of the vessel yes Are the blow off cocks fitted with a spigot and brass covering plate yes
 What pipes are carried through the bunkers suction to forward How are they protected wood cased.
 Are all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times yes in engine room.
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges yes
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock how new Launched 5th June 1886.
 Is the screw shaft tunnel watertight no tunnel and fitted with a sluice door ✓ worked from _____

BOILERS, &c.—

Number of Boilers One Description circular multitubular Whether Steel or Iron Steel
 Working Pressure 150 lbs Tested by hydraulic pressure to 300 lbs Date of test 19th June 1886
 Description of superheating apparatus or steam chest none fitted
 Can each boiler be worked separately ✓ Can the superheater be shut off and the boiler worked separately ✓
 No. of square feet of fire grate surface in each boiler 34.5 sq ft Description of safety valves Spring loaded No. to each boiler two
 Area of each valve 7.04 Are they fitted with easing gear yes No. of safety valves to superheater ✓ area of each valve ✓
 Are they fitted with easing gear ✓ Smallest distance between boilers and bunkers or woodwork 10" Diameter of boilers 10.10 1/2"
 Length of boilers 9.6" description of riveting of shell long. seams double strap double riv circum. seams double riv lap Thickness of shell plates 15/16"
 Diameter of rivet holes 1 1/8" whether punched or drilled drilled pitch of rivets 5.834 Lap of plating 11 3/4"
 Percentage of strength of longitudinal joint 81% working pressure of shell by rules 151 lbs size of manholes in shell 16" x 13"
 Size of compensating rings 6 1/2" x 1" No. of Furnaces in each boiler two
 Outside diameter 39" length, top 6.4" bottom 6.4" thickness of plates 1/2" description of joint welded if rings are fitted yes
 Greatest length between rings 6 feet working pressure of furnace by the rules 154 lbs combustion chamber plating, thickness, sides 11/32" back 11/32" top 11/32"
 Pitch of stays to ditto, sides 7 1/2" back 7 1/2" top 7 1/2" If stays are fitted with nuts or riveted heads nuts working pressure of plating by rules 154 lbs Diameter of stays at smallest part 1 1/4" working pressure of ditto by rules 180 lbs end plates in steam space, thickness 1"
 Pitch of stays to ditto 15 1/2" how stays are secured double nut washers working pressure by rules 150 lbs diameter of stays at smallest part 2 1/2" working pressure by rules 183 lbs Front plates at bottom, thickness 3/16" Back plates, thickness 3/16"
 Greatest pitch of stays 14" working pressure by rules 150 lbs Diameter of tubes 3 1/2" pitch of tubes 4 5/8" thickness of tube plates, front 3/4" back 13/16" how stayed stay tubes pitch of stays 9 1/4" width of water spaces 1 1/2"
 Diameter of Superheater or Steam chest _____ length _____ thickness of plates _____ description of longitudinal joint _____ diam. of rivet holes _____
 Pitch of rivets _____ working pressure of shell by rules _____ diameter of flue _____ thickness of plates _____ If stiffened with rings _____
 Distance between rings _____ working pressure by rules _____ end plates of superheater, or steam chest; thickness _____ how stayed _____
 Superheater or steam chest; how connected to boiler _____

HUL399-0001

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DONKEY BOILER— Description *No Donkey Boiler*

Made at _____ by whom made _____ when made _____ where fixed _____
Working pressure _____ tested by hydraulic pressure to _____ No. of Certificate _____ fire grate area _____ description of safety
valves _____ No. of safety valves _____ area of each _____ if fitted with easing gear _____ if steam from main boilers can
enter the donkey boiler _____ diameter of donkey boiler _____ length _____ description of riveting _____
Thickness of shell plates _____ diameter of rivet holes _____ whether punched or drilled _____ pitch of rivets _____ lap of plating _____
per centage of strength of joint _____ thickness of crown plates _____ stayed by _____
Diameter of furnace, top _____ bottom _____ length of furnace _____ thickness of plates _____ description of joint _____
Thickness of furnace crown plates _____ stayed by _____ working pressure of shell by rules _____
Working pressure of furnace by rules _____ diameter of uptake _____ thickness of plates _____ thickness of water tubes _____

SPARE GEAR. State the articles supplied:— *Two top end and two bottom end bolts, two main bearing bolts, one set coupling bolts, one set feed and Bilge pump valves.*

The foregoing is a correct description,

Charles Holmes Manufacturer.

General Remarks (State quality of workmanship, opinions as to class, &c. *Workmanship Good*)

*The machinery and boiler of this vessel constructed under Special Survey and placed onboard in accordance with the Society's Rules, are now in my opinion in safe working conditions. The case is respectfully submitted as eligible for the certification **RLMG 7.86** in the Register Book.*

The amount of Entry Fee £ 1 : - : - received by me,
Special .. £ 8 : - : -
Donkey Boiler Fee .. £ - : - : -
Certificate (if required) .. £ - : - : - 9/9/1886
To be sent as per margin.
(Travelling Expenses, if any, £ ..)

James James
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

FRIDAY 10 SEPT 1886

[Signature]

